INFINITI SLI™ Series

INFINITI

The next generation of power.

80 PLUS

DXX ready PCI EXPRESS® 6+2P(8P)

NVIDIA. SLI READY

DUAL **CPU** QUAD **CORE** TRIPLE QUAD **GRAPHICS** + 18/12 **DRIVES**
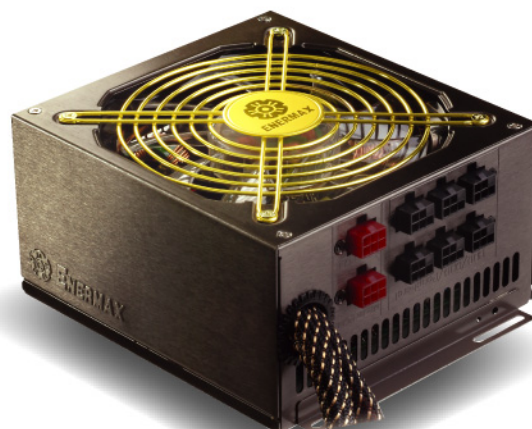
650W / 720W

FEATURES

DXX READY
For PCI-E 2.0 / DXX next generation graphic cards with 6+2P(8P) PCI Express connector

Nvidia® SLI™ certified.
(ENERMAX INFINITI 650 SLI™ EIN650AWT-00, INFINITI 720 SLI™ EIN720AWT-00)

Three separated 12V rails
The best rail design for this PSU class.

Modular
SATA or PATA without restrictions.

82-85% efficiency
Minimizing the electricity bill.

24/7 @ 40°C
Running with full power in industrial environments.

Tight & Stable
Essential to high-end systems.

CoolGuard
The new patent feature, running not only PSU fan after shutdown, but all system fans to get the heat out of the system and increasing system lifetime by up to 20%.

PowerGuard
The world's first desktop PSU series with 4-mode PSU status alarm with reset button.

The most security features of the industry
OCP, OLP, SCP, OVP, UVP & OTP protected PSU and system from damage.

Leading PCB components and design
The foundation of ENERMAX' philosophy and its products to make the utmost possible.

Silent & Cool
A special 13.5cm fan ensures cool performance and silent operation.

ENERMAX

TRIPLE

3 PCI Express 1.0 graphics (a 150W)

A
B

A + **18**
B

QUAD *1

2 PCI Express 2.0 (a 300W)

+ **12**

DUAL | **QUAD** | **GRAPHICS** | **DRIVES**

CPU | CORE

✱ Actual maximum support might vary by power consumption of connected components and is limited to DC output specifications.
✱1 Using additional EMC009 modular cable instead of 6 drives.

82-85% EFFICIENCY SAVES YOUR MONEY

COMPARE	SYSTEM 24/7 @ 500W Load		KWh (kilowatts/hour) 1 kWh=0.1415$(California)		MONEY WASTED
PSU	Efficiency	AC IN	per day	per year	per year
Infiniti	82%	610W	14.634	5341.46	0 US$
PSU A	80%	625W	15	5475	18.89 US$
PSU B	75%	667W	16.008	5842.92	70.96 US$

Formula:(power out/ efficiency) x 24/1000= kWh/day x 365 = kWh/year (**Infiniti** : (500/0.82) x 24/1000=14.634 kWh/day x 365 = 5341.46 kWh/year)
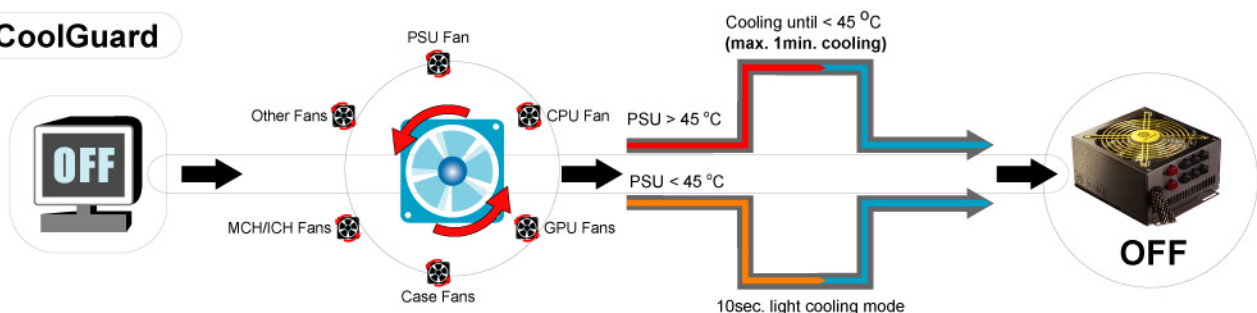
PowerGuard

Protects your entire system against damage by dynamic monitoring with 4 alarm modes and reset function.

	LED		BUZZER	INFO
⚪	OFF		SILENT	NO AC INPUT
🟠	ORANGE		SILENT	STAND-BY MODE
🟢	GREEN		SILENT	PSU NORMAL
🔴	RED	📢	TWO BEEPS INTERVAL	PSU PROTECTION ACTIVE
🔴	BLINKING RED	📢	SHORT BEEPS	PSU FAN ABNORMAL

CoolGuard

PSU Fan

Cooling until < 45 °C
(max. 1min. cooling)

Other Fans
CPU Fan
PSU > 45 °C

MCH/ICH Fans
GPU Fans
PSU < 45 °C

Case Fans

OFF

10sec. light cooling mode

This patented function enables all system fans after shutdown to run and get the heat out of your system to prolong its life by up to **20%**.

ENERMAX

INFINITI 24/7@40°C

TRIPLE REMOTE SENSE REGULATION
For maximum stability

SYMETRIC DOUBLE FORWARD CIRCUIT
For highest efficiency

TRIPLE 12V RAIL DESIGN
Best rail design in this PSU class

SINGLE PCB DESIGN
Allowing 13.5cm fan cooling for 40°C performance.

High Flux Core for PFC
With high density wiring for better storage capabilities and high saturation flux density core performance

Active PFC / primary AC side control card
with integrated brown-out protection

BRIDGED VOLTAGE RECTIFIER
For low operation temperature

HITACHI Primary Capacitor
Special heavy-duty model

x4

4X COOL MOSFET on primary side (attached to heatsink)
More reliable and cooler than normal MOSFET's

800W main transformer
11.1% safety power reserve

One Transformer for +5Vsb output
6-8 USB Device Support

Ceramic Fuse for input over current protection
Improved safety performance to glass types

DUAL TRANSFORMER DESIGN
For home, office & industrial applications

AMORPHOUS Core Magnetic Amplifiers
For tightest regulation.

Enhanced EMI filter board
True EMC standard EN61204-3 compliance

11 x 105°C secondary capacitor
Low ESR effect (Equivalent Series Resistance), highest output reliability

Anodized aluminum heat sink with array splitting
for rapid heat dissipation

Dual SENDUST Core
For wide load range efficiency

FR4 dual layer PCB board
Excellent current conduction, improving total efficiency

CoolGuard control unit
Patented system fan control after shut-down

PowerGuard control unit
World's first protection design in ATX12V PSU

* 720W model illustrated

ENERMAX

We are

PCI EXPRESS® 6+2P(8P)

ready

are You?

6P

6P
6P

6P
8P

PCI Express 2.0 was announced on January 15th by the PCI-SIG, an industry group of currently more than 850 companies like AMD, Broadcom, HP, IBM, Intel, LSI Logic, Microsoft and nVIDIA. It defines the standards for the next generation of motherboards and graphic cards, commonly dubbed as DirectX 10 capable. This new architecture effectively boosts their performance and utilization compared to their DirectX 9 / PCI Express 1.0 predecessor enormously and requires a new 8P power connector.
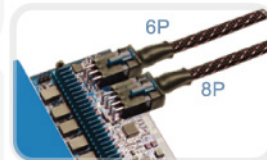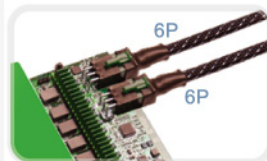
SPECIFICATIONS

Model Name	EIN650AWT-00		EIN720AWT-00	
AC Input Rating				
Input Voltage	Universal 100-240VAC, 50Hz - 60Hz, Active PFC			
Input Current	4A-9.5A		4A-11A	
Frequency	50Hz - 60Hz			
DC Output Rating				
+3.3V	25A	160W	25A	160W
+5V	30A		30A	
+12V1	28A	624W (52A)	28A	672W (56A)
+12V2	28A		28A	
+12V3	30A		30A	
-12V	0.6A	22.2W	0.6A	22.2W
+5Vsb	3A		3A	
Total Power	**650W**		**720W**	

MULRIPLE PROTECTIONS

Infiniti will turn off to protect itself and your system from damage.

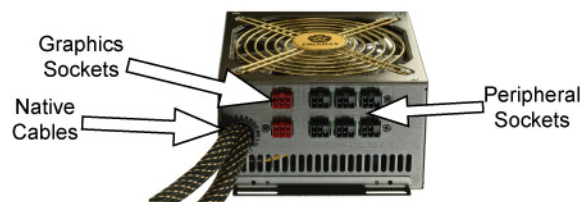|	12V1	12V2	12V3	3.3V	5V	-12V	+5Vsb
OCP	yes	yes	yes	yes	yes	no	no
OLP	on 110 - 150% of maximum output						
SCP	yes	yes	yes	yes	yes	no	yes
OVP	yes	yes	yes	yes	yes	yes	yes
UVP	yes	yes	yes	yes	yes	no	yes
OTP	yes						

(OCP = Over Current Protection, OLP = Over Load P., SCP = Short Circuit P., OVP = Over Voltage P., UVP = Under Voltage P., OTP = Over Temperature P.)

ENERMAX

12V Rail Distribution

INFINITI is the leading desktop PSU series with three 12V rails, each able to provide up to 28 or 30A each continuously. This allows support of extreme gaming systems or smaller systems with a balanced load on each rail, providing maximum stability and safety. These super strong rails allow support even of the newest generation of graphic cards which consume up to 300W alone.

Rail	Powered	
12V1	6P PEG 1	9 Drives
12V2	6P PEG 2	4+4P CPU & 9 Drives
12V3	6+2P(8P) PEG	MBU

CABLES & CONNECTORS

DXX ready PCI EXPRESS 6+2P(8P)

Graphics Sockets

Native Cables

Peripheral Sockets

Native Cables

24P Mainboard	1
6+2P PCI-E	1
4+4P CPU 12V	1
FM (FAN RPM)	1

Modular Cables

Modular Cables Supplied	Model	EIN650AWT-00	EIN720AWT-00
EMC001: 3 x SATA — 45 / 60 / 75cm		2	3
EMC002: 3 x 4P Molex — 45 / 60 / 75cm		3	3
EMC004: PCI Express — 45 cm		2	2
EMC009: 6+2P (8P)PCI-E 2.0 / DXX add-on cable — 45 cm		1	1
4P to 2FDD Adaptor — 12 cm		1	1
EMC007 : 2x2 + 12V (RAM Power) — Germany & UK only — 45 cm		1	1

EMC009: 6+2P (8P)PCI-E 2.0 / DXX add-on cable
6+2P PCI-E (To Graphics Card)
Connectors to PSU

Certifications & Standards

Safety	TÜV Rheinland Product Safety — BAUART GEPRÜFT TYPE APPROVED / UL cULus E134014 / CB / D43028	
EMC	CE / FCC Tested To Comply With FCC Standards FOR HOME OR OFFICE USE / MIC	

RoHS